

ZUBKOV, A.B., GRISTOV, L.B.

Certain mineralogical and technological characteristics of ores
in the weathered layer of rare metal deposits. Izv. vys. ucheb.
zav.; tavet. met. 8 no.5;23-28 '65. (MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
radkometallicheskoy promyshlennosti, laboratoriya ushchestvennogo
sostava rud.

GURVICH, S.I.; ZUBKOV, L.B.; GALETSKIY, L.S.

Geological and mineralogical characteristics of baryllium
mineralization related to genthelvite. Sov.geol. 8 no. 2229.
(MIR: 18:12)
44 F '65.

ZIVOVY, V. D.; CHUBOV, A. P.; KERZHNIKOV, R. P.; SHVARTZ, T. B.; GOLIKOV, V. N.

How about the possibility of getting a copy of the document
you left in the USSR? (Ref. no. 1965, 20018-2) (U) (SAC, 1965)

1. Got the necessary documents. Unfortunately I didn't get it by
that time. It's possible to get it by the end of the month, but not earlier.
1965

ZUBKOV, L. V.

USSR/Engineering
Industrial Statistics

Oct 1947

"Technical Re-equipping of the USSR People's Economy for Thirty Years," Prof A. A. Zvorykin, L. V. Zubkov, 13 pp

"Nauka i Zhizn!" No 10

In First Five-Year Plan Soviet industries multiplied some eight times (US in the same period expanded only 50%). General account of the rapid strides made in Soviet industry. No exact production figures, but gives comparisons in terms of percentages. Series of photographs show industrial might of USSR. Views show Volkhovsk Hydroelectric Plant imeni V. I. Lenin, Nevinnomysskiy Canal with a view of causeway. Several views of steel plants, among them a shoreward view of AzovStal' Metallurgical Works; several photographs of factory equipment, e.g., a super die press at the UralMashZavod.

PA 58T32

1. ZUBKOV, L. Ye.; DURNCHO, P. F.; KISHENIN, Yu. V.
2. USSR (600)
4. Medical Instruments and Apparatus
7. Mechanization of laborious processes in the production of medical glassware.
Med. prom. no. 6 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

GIL'ZIN, Karl Aleksandrovich, kand. tekhn. nauk; ZUBKOV, M.A., otv. red.;
MOLOKANOVA, N.A., tekhn. red.

[Travel to distant worlds] Puteshestvie k dalekim miram. Moskva,
Gos. izd-vo detskoi lit-ry M-va prosv. RSFSR, 1960. 319 p.
(MIRA 14:6)

(Astronautics) (Interplanetary voyages)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, M., podpolkovnik

The mission is accomplished by the engineer road-construction
company. Voen.vest. 43 no.10198-101 O '63. (MIRA 16:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

KHALIFMAN, Iosif Aronovich; ZUBKOV, M.A., otv. red.; TOKAR'VA, T.M.,
tekhn. red.

[Password of crossed antennas] Parol skreshchennykh antenn.
Moskva, Detgiz, 1962. 413 p. (MIRA 16:2)
(Insects)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZIGEL', Feliks Yur'yevich; KUHT, V.G., kand. fiz.-matem. nauk,
nauchnyy red.; ZUBKOV, M.A., otv. red.; YEGOROVA, V.K.,
tekhn. red.

[Radio waves from outer space] Radiovolny iz kosmosa. Mo-
skva, Detgiz, 1963. 141 p. (MIRA 16:6)
(Radio astronomy)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

SHVARTS, Anatoliy Leonidovich; ZUBKOV, M.A., otv. red.; YEGOROVA,
V.K., tekhn. red.

[Code of life] Shifr zhizni. Moskva, Detgiz, 1963. 205 p.
(MIRA 16:10)
(MEDICINE) (MOLECULAR BIOLOGY)

SIMONOVICH, Il'ya Zus'yevich; ZUBKOV, M.A., otv. red.

[Pioneer, you can learn to be a shipbuilder] Pioner -
sudostroyitel'. Moskva, Izd-vo "Detskaia literatura,"
1964. 140 p.
(MIRA 17:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2"

BUNIMOVICH, David Zakharovich; ZUBKOV, M.A., redaktor; SAMOKHVALOVA, N.P.
tekhnicheskiy redaktor

[Book for the young photoamateur] Kniga iunogo fotoliubitelia.
Moskva, Gos.izd-vo detskoi lit-ry Ministerstva prosveshcheniya
RSFSR, 1955. 222 p.
(Photography)

KHALIFMAN, Iosif Aronovich; ZUBKOV, M.A.; otyv. red.; KRAVTSOVA, R.M.,
tekhn. red.; GOLUBEVA, V.A., tekhn. red.

[Subterranean dwellers] Otstupivshie v podzemel'e. Moskva, Gos.
izd-vo detskoi lit-ry M-va prosv. RSFSR, 1961. 191 p.

(Termites)

(MIRA 14:12)

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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

KONDRATOV, Aleksandr Mikhaylovich; DOBRUSHIN, R.L., doktor fiz.-
matem. nauk, nauchnyy red.; ZUBKOV, M.A., otd. red.;
PUSHKOVA, S.K., tekhn. red.

[Numbers and thought] Chislo i mysl'. Moskva, Detgiz,
1963. 141 p. (MIRA 16:6)
(Cybernetics)

GUBIN, Vadim Aleksandrovich; ZUBKOV, M.A., oty. red.; SHEVCHENKO, G.N.,
tekhn. red.

[School apiary] Shkol'naia paseka, Moskva, Gos. izd-vo detskoi lit-
ry M-va prosv. RSFSR, 1960. 109 p. (MIRA 14:7)
(Bee culture---Study and teaching)

ZIGEL', Feliks Jur'yevich; ZUBKOV, M.A., otv.red.; PIRTSERVA, T.V.,
tekhn.red.

[The Universe is full of riddles] Vselennnaja polnae zadadok,
Moskva, Gos.izd-vo detskoi lit-ry M-va prosy, RFSR, 1960.
243 p. (MIRA 14:1)
(Astronomy)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

PIL'NEV, Valentin Mikhaylovich; ZUBKOV, N.A., otv.red.; FIVNG, G.M.,
tekhn.red.

[Astonishing halves; 75 experiments with potatoes] Udivitel'nye
polovinki; 75 opytov s kartofelem. Moskva, Gos.izd-vo detskoi
lit-ry M-va prosv.RSFSR, 1960. 93 p. (MIRA 13:7)
(Potatoes)

PEREL'MAN, Yakov Isidorovich [deceased]; PRUSAKOV, I.I.; ZUBKOV, M.A.,
otv.red.; KUTUZOVA, M.A., tekhn.red.

[Interesting problems and experiments] Zanimatel'nye zadachi
i opyty. Moskva, Gos.izd-vo detskoi lit-ry, 1959. 525 p.
(MIRA 12:8)
(Science--Juvenile literature)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

LARIONOV, Leonid Georgiyevich; ZUBKOV, M.A., otv.red.; LEVINSKAYA,
N.Z., tekhn.red.

[Decisive years] Reshniushchie gody. Moskva, Gos.izd-vo
detsoi lit-ry M-va prosv.RSFSR, 1959. 30 p. (MIRA 12:8)
(Electrification)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

**GIL'ZIN, Karl Aleksandrovich, kandidat tekhnicheskikh nauk; LEVENSHTEYN,
G.V., otvetstvennyy redaktor; ZUBKOV, M.A., otvetstvennyy redaktor;
SUKHOVTSEVA, M.D., tekhnicheskiy redaktor**

[Travels to distant worlds] Putemhestvie k dalekim miram. Moskva,
Gos. izd-vo detskoj lit-ry, 1956. 276 p. (MLRA 9:10)
(Interplanetary voyages)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
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GAL'FERSHEYN, Leonid Yakovlevich; KHLEBNIKOV, Petr Petrovich; ZUBOV,
M.A., otv. red.; TOKAREVA, T.M., tekhn. red.

[The young physicist's laboratory] Laboratoriia iunnego fizika.
Moskva, Detgiz, 1962. 126 p. (MIRA 15:6)
(Physical laboratories)

KOLTASHEV, N.G.; ZUBKOVA, M.F.; MARATSUTSEVA, G.V.

Determination of the viscosity of thick extracts by means of a
tangentially displaced plate. Apt. delo 9 no. 5:20-22 S-0 '60.
(MIRA 13:10)

1. Permskiy farmatsevticheskiy institut.
(VISOCSIMETRY)

SYRMAY, A.G., nauchnyy sotr.; OBERMEYSTER, A.M., nauchnyy sotr.;
BRONFMAN, A.I., nauchnyy sotr.; SHIMKO, K.N., kand. tekhn.
nauk; PARAKHOMSKIY, B.M., kand. ekon. nauk. Prinimali uche-
stiye: ZHURILOV, V.I., nauchnyy sotr.; ZUBKOV, M.I., nauchnyy
sotr.; SIVARTS, G.L., nauchnyy sotr.; MIKHAYEV, A.P., doktor
tekhn. nauk, prof., otv. red.; BYKOV, I.K., red. issd-va;
DOROKHINA, I., tekhn. red.

[Water and air transportation in capitalist countries: trends in
the development of equipment] Vodnyi i vozduzhnyi transport kapita-
listicheskikh stran; tendentsii razvitiia tekhnicheskikh sredstv.
Moskva, Izd-vo Akad.nauk SSSR, 1961. 350 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut kompleksnykh transportnykh pro-
blem.

(Merchant marine) (Aeronautics, Commercial)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, M. R.

The boring of oil wells; textbook. Izd. 2., ispr. i dop. Reku,
Azgostoptekhizdat, 1941. (49-34447)

TN870.Z93 1941

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, M.M.

Efficient performance of bits on bottoms of very deep wells.
Neft. khoz. 38 no.10:48-52 0 '60. (MIRA 13:9)
(Boring machinery)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, M.M.

An efficient system of well-head fitting for specially designed
tubingheads. Trudy Akad. neft. prom. no.2:184-190 '55.

(Oil wells--Equipment and supplies)

(MERA 8:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, M.M.

Wear of bits in deep drilling in connection with maximum efficient
drilling speed. Trudy KF VNII no.5:228-246 '61. (MIRA 14:10)
(Oil well drilling)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

Gnedenko, B.V., akademik; Zubkov, M.N.

Determining the optimum number of berths. Mor. sbor. 49 no.6:30-39
Je '64. (MIRA 18:7)

ZUBKOV, M.Ye., Tech. FEDAIER, I.I., doktor khimicheskikh nauk

Using the method of self-tension characteristics in regulating
medium current density. Vestn. Inostroant. no.2(7-76) Pr-Ap '66.
(KGB 1976)

ZUBKOV, M.Ye., inzh.

Calculation of the optimum parameters of networks with parallel
control. Vest.elektroprom. 33 no.2:58-62 F '62. (MIRA 15:2)
(Electric networks) (Electric relays)

BYALOBZHESKII, Grigoriy Valerianovich, kand. tekhn. nauk; DYUNIN, Arkadiy Konstantinovich, kand. tekhn. nauk; KOMAROV, Aleksey Aleksandrovich, kand. tekhn. nauk; ZUBKOVA, M.S., red.; DONSKAYA, G.D., tekhn. red.

[Snow shields and fences] Snegozashchitnye shchity i zabory. Moskva,
Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog
RSFSR, 1961. 35 p. (MIRA 14:8)

(Snow fences)

BABKOV, Valeriy Fedorovich, prof., doktor tekhn.nauk; ZUBKOVA, M.S.,
red.; MAL'KOVA, N.V., tekhn.réd.

[Highways; basic information on highways for automobile
drivers] Avtomobil'nye dorogi: osnovnye uvedaniia o dorogakh
dlia avtomobilistov. Izd.2., perer. i dop. Moskva, Nauchno-
tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh
dorog RSFSR, 1960. 238 p.
(Roads) (MIRA 13:?)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2"

ZUBKOV, N. pidromonitorshchik.

A team performing creative work, Mast.ugl. 5 no.3:8 Mr '56.
(Kuznetsk Basin--Hydraulic mining) (MLRA 9:2)

ACC NR: AP7004150

(v) SOURCE CODE: UR/0375/67/000/001/0029/0037

AUTHOR: Zubkov, N. A. (Candidate of military science; Colonel); Barishpolets, V. A. (Engineer; Captain 3d rank)

ORG: none

TITLE: Programmed evaluation and review technique PERT as a tool of scientific research

SOURCE: Morskoy sbornik, no. 1, 1967, 29-37

TOPIC TAGS: stochastic process, mathematic method, planning, scientific research, PERT, programming, programmed evaluation

ABSTRACT: The authors analyze conditions under which mathematical methods of PERT may be applicable, specifically when investigating stochastic processes. The use of these methods may be a time-saving factor in nuclear warfare, and may be used to investigate the operational efficiency of control of naval forces and facilities. The complexity of the construction of network models and the methods to be used in this connection are analyzed. The authors stress the value of the PERT method in obtaining quantitative indices characterizing the operational capability

Card 1/2

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CIA-RDP86-00513R002065520018-2" CIA-RDP86-00513R002065520018-2"

ACC NR:

AP7004150

of the control system and to streamline the operations of electric computers.
Orig. art. has: 8 figures and 7 formulas.

SUB CODE: 09, 12, 15/SUBM DATE: none/ORIG REF: 003/

[GC]

Card 2/2

ZUBKOV, N.F., inzhener.

Eliminating excesses in the plans of the machine construction
ministries. Biul.stroi.tekh. 13 no.5:1-3 My '56. (MLRA 9:8)

1. Gosstroy SSSR.
(Machinery industry)

Vassilyevsky Research Institute
Stekloelektronika Laboratory; Institute of Chemistry, Leningrad;
16-20 acre(s) (Vitebsk Street, 10, Saint Petersburg);
ference on the Vitebsk State, Held in Leningrad, May 1950, Krasnoyarsk;
Izdat. Akad. Nauk SSSR, 1952, 524 p. Errata and Index.
(Series: 1st: Study)

Sponsoring Agents: Institut Klima, Stiftung Klima und Umwelt, D.I. Fonds für Umwelt- und Klimaschutz, Österreichische Akademie der Wissenschaften, G.J. Vassiljev

Lentica optically stimulated luminescence

Editorial Board: A.I. Argutinets, V.O. Farapovsky, E.A. Gorbachev, O.V. Matveikin,
V.V. Parfitt, A.G. Vasov, N.M. Vetrakovsky, A.A. Lebedev, M.A. Korostyshov, V.G.
Molchanov, R.L. Mueller, Yea-Hoon Park, John P. Robinson, J.A. Schreyer, D.J. Sorenson, V.A.
Volkovskii, R.A. Wetherill, Ed.: Publishing House: 215, Sovetskaya, Tashkent, USSR.

THE JOURNAL OF CLIMATE

FIGURE: This book is intended for researchers in the science and technology of glasses.

CONFERENCE: The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Gorky on November 16-19, 1959, the First deal with the methods and results of studying the structure of glasses, the relation between the structure and properties of glasses, the nature of the crystallization of glasses, the crystallization of glasses by various methods. Poured electrical heat and glass structure, and the optical properties of glasses structure, and the electrical properties of glasses are often discussed. A number of the reports deal with the dependence of glass properties on composition, the kinetics of processes and relations between technical, physical, and chemical properties of glasses and radiation. Other papers treat glass structures and glass boundaries of glasses. Other papers treat glass structures and glass boundaries of glasses. The Conference was attended by more than 2000 scientists from Soviet East European scientific organizations, and the participants in the discussions were German scientists.

EDITORS: V. Kurnikov, N. S. Gusev, V. P. Pravdin, Yu. T. Zinov'ev, M. V. Solntsev, Ye. V. Kurnikova, N. M. Lashko, Yu. I. Lazarev, D. S. Petrenko, G. M. Mil'man, G. M. Fursenko, Ye. V. Kurnikova, G. V. Orel'sh, O. P. Beloborodov-Petropyan, G. P. Mil'man, Ye. V. Kurnikova, A. N. Suntsov, M. N. Plotkin, V. A. Kuznetsov, P. N. Sazanov, P. G. Egorov, Ye. A. Lekis, A. N. Suntsov, H. A. Kalman, M. M. Shatyrina, V. I. Sazanov, O. S. Kuklin, V. N. Kurnikov, N. B. Sverdlovich, A. D. Pil'skii, and O. S. Kuklinova.

KRASNOVSKIY: The Conference was addressed by Professor I. G. Krasnovskiy, the Head of the Institute of Technical Physics. The following

Vitreous State (cont.)
Sov/505

Aristarkova, M.M. Characteristics of the Electric Field in Patterns of Spectral Lines Indicating Electrical Conductivity of 257
Reshetnikov, G.V. Dependence of Electrical Conductivity of Eddili Glass on Concentration 259
Khar'yanov, V.A., G.P. Khar'yanova, and N.M. Zubkova. Electrical Conductivity of Glazes of the Technological System 261
Kotikyan, K.A. Study of the Neutralization Effect of Electrical Conductivity in Paved Porous Glasses 265
Yevstreyev, K.M. Study of Diffusion of Some Alkali Ions in Silica Glasses With the Aid of Conductive Particles 270
Ivanova, Ye.A. Diffusion of Oxygen Ions in Glass Depending on Concentration 274
Tofee, V.A., O.I. Physar'yev, and I.S. Tashchikova. Electrical Properties of Aluminosilicate 275
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Sov/505

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Verbovskii, Yu.M., S.L. Vasil'eva. New Luminescent Zincium-Cerconium-Silicon Glasses of Chuquicamata 282
Osherenko, V.N., and A.P. Novikov. On the Problem of Explaining the Nature of Electrical Conductivity in Aluminosilicate 286
Bakol'skii, R.P., and V.M. Shal'ts. Tin Oxide Glass Properties 292
Petrovskii, G.T. Electrical Properties of Soda-Earth Silicate Glasses 293
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PHYSICO-CHEMICAL PROPERTIES OF GLASSES
Relationship of Properties on Composition 297
Kostylev, Yu. On Some of the Studies Included in the Section Relating With Properties of Various Glasses 297
Card 14/22

Sov/505

Vitreous State (cont.)
Shal'ts, Yu. A. On the Properties of Zincite of Albali Silicate Glasses on Ceria, Titania 310
Gerasimov, E.Z., and Yu.Y. Appearance, Stability and Structure of Thoroglass Glasses 314
Medvedev, N.M. Preparation and Activation of Light by Some Crystals and Glasses 318
Tsvetkov, A.K. Preparation and Activation and Chemical Conductivity of Glasses 323
Flavianty, V.N. On the Effect of the Activation Energy of Various Types of Alkali Silicate Glasses of a Given Chemical Composition 329
Kind, S.G., and G.J. Malinov. Effect of Various Additives on Properties of Paved Glasses 331
Spiridonov, Z.M. Preparation and Properties of Aluminosilicate Glasses 335
Card 14/22

MYASOYEDOV, P., polkovnik, kand.voyennykh nauk; ZUBKOV, N., polkovnik,
kand.voyennykh nauk

Attack and counterattack. Voen.znan. 38 no.12+13-14, D '62.
(MTRA 15:12)
(Attack and defense (Military science))

ZUEKOV, N., polkovnik, kand.voyenrykh nauk

Fire, maneuver, and assault on the battlefield. Voen. znan. 37
no.8:35-36 Ag '61. (MIRA 14:7)
(Tactics)

ACC NR: AP7001765

(N)

SOURCE CODE: "UR/0310/66/000/010/0012/0033

AUTHOR: Belyayev, N. (Engineer); Zubkov, N. (Engineer); Polyakov, V. (Engineer)

ORG: VDSK im. V. I. Lenin Administration (Upravleniye VDSK)

TITLE: Method for conducting river bed surveys

SOURCE: Rechnoy transport, no. 10, 1966, 32-33

TOPIC TAGS: geodetic survey, geologic survey, hydrographic survey, surveying ship, surveying instrument, inland waterway, optic range finder, ranging, *УДК 622.01:622.07*

ABSTRACT: The basis of a new method of making river bed surveys is the coordination of soundings by solving the inverse geodesic problem contained in the process of ship movement by fixing two angles as a result of continuous sightings with three theodolites on three points of reference ashore, the coordinates of which are known. The new method provides for simultaneous coordination of the soundings taken by the sounding ship through a system containing an "instrument-selsyn-differential selsyn," which transmits two continuously observed angles to an operator who is charged with laying out the plan, a survey of the shore situation, including water lines, the edges of steep banks, and other reference points, using a range finder, the soundings taken by a fathometer with several transmitters mounted in a special console, and the initial laboratory processing. The entire survey party, 11 men, is embarked in

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UDC: 528.47

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ACC NR: AP7001765

the sounding ship (a motorship). The method is described, and the results obtained by one survey party working on the lower Don River established the fact that productivity increased by a factor of 3.3 when the new method and equipment was used and compared with the conventional method. The one survey party provided a saving of about 4,000 rubles annually. Orig. art. has: 4 figures.

SUB CODE: 08/SUBM DATE: None

Card 3/2

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ZUBKOV, N.

Progressive dredger. Rech. transp. 20 no.10:48 0 '61.

1. Glavnnyy inzhener Nizhne-Donskogo rayona gidrosooruzheniy.
(Dredging machinery)

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SEL'MONY, V.M., kand. tehn. nauk; NII V, SSSR, Leningrad

System of sandbanks located on estuary of Volga River near its
borders. Truly 1177 no. 6615-19 (1977) (1977)

ZUBKOV, N.V.

Determination of the separation factors of gas mixtures. Izv.
vya. ucheb. zav., neft' i gaz. 6 no. 5837-39 1969.

(MIRA 1787)

1. Groznyanskij neftyanoy institut.

ZUBKOV, N.V.

Method for determining the required weight of the weighted
bottom of sucker rods. Izv.vys.schekh.zav.;neft' i gaz ? no.
1:43-46 '64.
(MIRA 17;7)

1. Groznenskiy neftyanyoy institut.

AUTHOR: Zubkov, N.V. SOV/19-58-6-34/685

TITLE: A Depth-Pump Installation for Separate Producing from Two Layers (Glubinno-nasosnaya ustavovka dlya razdel'noy ekspluatatsii dvukh plastov)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 12 (USSR)

ABSTRACT: Class 5a, 41. Nr 113462 (555191 of 18 July 1956). Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. An installation in the form of two concentrically placed pipe strings and a compound piston pump mounted in the inner string. To let out under-layer gas, the outer string is pack hardened in the casing and bears in its lower portion a coupling with passage channels and a saddle for setting on the inner string, which is also provided with a coupling with passage channels and a saddle for the attachment of the compound pump.

Card 1/1

ZUBKOV, N.V.

Graphs for the determination of the feed factors of deep-well
pumps which pump live rude. Izv.vys.ucheb.zav.; neft'i gaz 6
no. 12:35-38 '63.
(MIRA 17:5)

1. Groznenskiy neftyanoy institut.

ZUBKOV, N.V.

More exact representation of the formula for the coefficient of admission of a pump with consideration of the harmful influence of free gas. Izv.vys.ucheb.zav.; neft' i gaz 6 no.9:47-51 '63.

(MIRA 17:2)

1. Groznenskiy neftyanoy institut.

ZUBKOV, N.Y.

Determining adequate weight for the heavy lower end of a
sucker rod column. Izv.vys.ucheb.zav.; neft' i gaz 1 no.11:
65-69 '58.
(MIRA 12:5)

1. Groznenskiy neftyanoy institut.
(Sucker rods)

ZUBKOV, N.V.

Results of the study of the effect of gas on the operation of
a deep well pump. Neft. khoz. 39 no. 6:57-62 Je '61. (MIRA 14:8)
(Oil well pumps)

ZUBKOV, P.,mekhanik

Machine for cutting cables. Ma stroi.Mosk. 2 no.6:28 Je '59.
(MIRA 12:8)

1. UM-24 tresta Mosstroymekhanizatsiya No.7.
(Cables) (Cutting machines)

BORISOV, M.; ZUBKOV, P.; KOSTINA, L.; YEFIMOVA, R.; VITCHUK, Boleslav

Builders are introducing new methods. Stroitel' no.12:8-9
D '59.
(MIRA 13:3)

1. Predsedatel' TSentral'nogo komiteta profsoyusa rabochikh
stroitel'stva i promyshlennosti stroitel'nykh materialov (for
Borisov). 2. Nachal'nik otdela truda i zarabotnoy platy
Ufimskogo tresta No.3 (for Zubkov). 3. Korrespondent gazety
"Znamya stroitelya" (for Yefimova). 4. Brigadir armaturshchikov
na zavode zhelezobetonnykh izdeliy Ryazanskogo tresta No.23
(for Vitchuk).

(Building)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, N.V.

Right depth for sinking a pump under the dynamic level. Neft.
knoz. 41 no.4:46-47 Ap '63.

(MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, N. V.

Calculating subsurface gas separators. Izv. vys. ucheb.
zav.; neft' i gaz 7 no.9k45-49 '64. (MIRA 17:12)

1. Grozneneskiy neftyanyy institut.

NIKITSKIY, N.; ZUBKOV, F.; LYUDINA, Ye.; KHODOSOVA, Yu., no refct

Exhibitions of special topics. Inform, bldg. VDNKh country. My. 1962
(MIRB 1962)

1. Starshiy mestodoliat russelija "Toryanaya promyshlennost'" na Vystavke dostizhenij narodnogo khozyaystva SSSR (for N. I. Nikitskiy).
2. Dostizheniya "vseisvernnogo" gosp. "Toplivnoye promyslennost'" "Ligkaya" na Vystavke dostizhenij narodnogo khozyaystva SSSR (for F. Zubkov).
3. Starshiy mestodoliat ob"yedinenij pavilonov "Toplivnaya promyshlennost'" i geologijny na Vystavke dostizhenij narodnogo khozyaystva SSSR (for Ye. Lyudina).
4. Pavillon "Ligkaya promyshlennost'" na Vystavke dostizhenij narodnogo khozyaystva SSSR (for Khodosova).

GOL'DENBERG, R.Y.; KALININ, I.; MIGULIN, N.; KALININA, T.; CHIKAZHEN, N.,
metodist; KOCHETKOV, T.

Exhibitions and displays of special items. Inform. naub. VCKKH no.8:
11-15 Ag 164. (MIRA 17:11)

1. Starshiy inzh.-metodist razdela "Organizatsiya proizvodstva i upravleniya promyshlennymi predpriyatiyami" pavil'ona "Mashino-stroyeniye" na Vystavke doslizheniy narodnogo khozyaystva SSSR (for Gol'denberg).
2. Director ob"yedinennykh pevich'chonov "Toplivnaya promyshlennost' i gazoqlijuy" na Vystavke doslizheniy narodnogo khozyaystva SSSR (for Zubcov).
3. Glavnyy metodist pavil'ona "Teplichnaya promyshlennost'" na Vystavke doslizheniy narodnogo khozyaystva SSSR (for Beginin).
4. Glavnyy inzh.-metodist pavil'ona "Poftyanaya promyshlennost'" na Vystavke doslizheniy narodnogo khozyaystva SSSR (for Kotokina).
5. Starshiy inzh.-metodist pavil'ona "Kolocchnaya promyshlennost'" na Vystavke doslizheniy narodnogo khozyaystva SSSR (for Kochetova).

ZUBKOV APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

"On the electrical analogues of linear electromechanical systems", by Candidate
of Technical Sciences P. G. Zubkov, at the Power Engg. Inst. im KAZHIZHANOVSKIY
of the Acad. Scs. USSR.

SO: Elektrичество, No 5, Moscow, May 1947 (U-5533)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

SANZHAROVSKIY, A.T.; DYL'KOV, M.S.; ZUBOV, P.I.

Effect of the thickness of the adhesive layer on the strength of
glued joints. Plast.massy no.4:43-46 '64. (MIRA 17:4)

KRYLOVA, I.A.; POSPELOVA, K.A.; ZUBOV, P.I.

Stabilization of aqueous dispersions of carbon black by surface-active agents. Koll. zhur. 26 no.1:57-60 Ja-F '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

ZUBR

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520018-2"

LUPICHEV, N.P., inzh.; CHELYSHEV, F.S.; ZUBKOV, P.M.

Use of inert (smoke) gases for the transportation of petroleum
products and the repair of oil tank vessels. Proizv.-tekhn. sbor.
no.3:50-66 '59. (MIRA 13:10)
(Tank vessels) (Petroleum industry--Safety measures)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

PETROV, Nikolay Grigor'yevich; ZUBKOV, P.N., retsenzent; OGIFCV,
V.T., retsenzent; DOKUCHATEV, M.M., retsenzent;
DAVYDOV, S.A., etv. red.

[Short-delay blasting in mines] Korotkozamedlennoe vzy-
vanie v shakhtakh. Moscow, Nedra, 1964. 442 p.
(FIRK 1746)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2

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CIA-RDP86-00513R002065520018-2"

VALEYEV, Sh.V.; ZUBKOV, P.S., red.; SMIRNOVA, I.I. red.; ZAYNULLIN, I.Kh.,
tekhn. red.

[Special features of growing seed corn] Osobennosti vozdelyvaniia
kukuruzy na semena, Pod red. P.S. Zubkova. Kazan', Mtnknoizdat,
1957. 44 p.

(MIRA 11:10)

(Corn (Maize))

RABINOVICH, M.P.; ZUBKOV, P.S., redaktor

[Economic analysis of collective farm production] *Ekonomicheskii analiz kolkhoznogo proizvodstva*. Kazan', Tatkniigoizdat, 1956. 117 p.
(Collective farms--Accounting) (MLRA 10:9)

ZUBKOV, R.A., kapitan 3-go ranga

Is such a handbook necessary? Mor. sbor. 48 no.2:49-51
F '65. (MIRA 18:11)

ZURKOV, S.

How to plan the work of a trade-union committee, Sovprofsoiuzny 17
no.12:32-33 Je '61. (MIRA 14:6)

1. Predsedatel' komiteta profsoyuza Saratovskogo zavoda
tyazhelykh zuborennykh stankov.
(Saratov--Machine tool industry) (Trade unions)

ZURKOV, S.D.

Anniversary of an outstanding scientist. Visnyk AIV URSR 25 no.12:
58-60 D '54.
(Bilets'kyi, Oleksandr Ivanovych, 1884-)

ZUBKOV, S.S.

Efforts for the reduction of steel costs. Metallurg 6 no.7:17-19
Jl '61. (MIRA 14:6)

1. Master elektrostaleplavil'nogo tsekha No.2 Zlatoustovskogo
metallurgicheskogo zavod.
(Steel--Eletrometallurgy)

ZUKOV, T. A.
A. D. ZIMOV, Soviet Geol., 1, No. 8, 53-55, 1939

ZUKOV, V.

"Mesbass" shield. Mst. ugl. 7 no.11:24 N '58. (MTRA 11:12)

1.Zamestitel' glavnego inzhenera shakty No.4 kombinata Tulaugol'.
(Coal mines and mining--Equipment and supplies)

ZUBKOV, V., inzhener; LEVKIN, Z., inzhener.

Quick method for determining moisture in grain after drying.
Muk.elev.prom. 23 no.9:9-10 S '57. (MIRA 10:11)

1. Gor'kovskaya mel'nitsa No.1.
(Grain--Analysis) (Moisture)

ZUBKOV, V., inzh. direktor-podpolkovnik puti i stroitel'stva,

Review of literature on the roadbed, Zhel. dor. transp. no.1:92-95
147. (MIRA 13:2)
(Railroads--Track)

MORGUN, A., inzh.; SHCHERBAKOV, V., inzh.; ZUBKOV, V., inzh.; SMEKALIN, V.,
inzh.

Rubber cleaner for separator sieves. Muk.-elev.prom. 25 no.?;
16-17 Jl '59. (MIRA 12:11)

1. Gor'kovskiy mashinostroitel'nyy zavod im. Vorob'yova (for
Morgun, Shcherbakov). 2. Gor'kovskiy nauchno-tekhnichnyy kombinat No.1
(for Zubkov, Smekalin).
(Sieves)

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CIA-RDP86-00513R002065520018-2

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520018-2"

TESLER, L., inzh.; ZUBOV, V., tekhnik

Thermionic time relay for automatic VTI grain dryers. Muk.-elev.
prom. 24 no. 2:27-28 F '58. (MIRA 11:4)

1. Kuybyshevskoye territorial'noye upravleniye.
(Grain--Drying)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

ZUBKOV, V., inzh.; TROFIMOV, G., inzh.

Building foundations for the underwater part of a slipway
with compacted sand. Rech. transp. 21 no. 6:41-42 Je '62.

(MIIA 15:7)

(Hydraulic engineering)

ZUBKOV, V.

Gorkiy Flour Mill during the years of Soviet rule. Mult.-elev. prom.
23 m.11:21-22 N '57. (MIRA 11:1)

1. Glavnnyy inzhener Gor'kovskoy mol'nitsey No.1 im. M.I. Kalinina,
(Gorkiy--Flour mills)

ZUBKOV, V.

Employees of the Gorkiy Flour Mill No. 1 are striving for technical progress. Mukrelev.prom. 27 no.5:3-4 My '61. (MINA 14:6)

1. Glavnnyy inzh. Gor'kovskoy mel'nitsy No. 1.
(Gorkiy--Flour mills)

SAPOZHNIKOV, Matvey Yakovlevich; BULAVIN, Ivan Anisimovich; KANTOROVICH,
Z.B., professor, doktor tekhnicheskikh nauk, retsensent; ZUBKOV,
V.A., detsent, kandidat tekhnicheskikh nauk, netsensent; RASSIAZOV,
M.I., kandidat tekhnicheskikh nauk, dotsent, retsensent; SIDENKO,
P.M., kandidat tekhnicheskikh nauk, retsensent; KOZULIN, N.A., pro-
fessor, doktor tekhnicheskikh nauk, retsensent; STOLYAROV, S.A.,
redaktor; GURVICH, E.A., redaktor; LYUDKOVSKAYA, N.I., tekhniches-
kiy redaktor.

[Machines and apparatus used in the silicate industry] Mashiny i
apparaty silikatnoi promyshlennosti; obshchii kurs. Issled. 2-e, dop.
i perer. Moskva, Gos.izd-vo lit-ry po stroitel'nym materialam,
1955. 423 p. (MLRA 9:5)

(Clay industries)

89218

8/056/61/040/001/024/037
B102/B212

14.450.

AUTHORS: Adamov, M. N., Zubkov, V. A.

TITLE: A comment to the variational calculation of polarizability

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,
no. 1, 1961, 246-248

TEXT: In the derivation of Kirkwood's formula and similar variational formulas for polarizability the requirements which result from the orthogonality of the perturbed wave functions, were not considered. These formulas therefore give a higher value of the polarizability of excited electron states. The authors' aim is to show that if these requirements are taken into account when setting up the trial function for variational calculation of the electron polarizability in the excited state, results are obtained which agree well with exact values, (i.e., they approach them from below). The variational problem of determining the polarizability $\alpha_i = -2E_i^{(2)}$ for the i-th electron state is formulated as follows:

$$E_i^{(2)} = J \left[\Psi_i^{(1)} \right]_{\min} = \int \Psi_i^{(1)} (H_0 - E_i^{(0)}) \Psi_i^{(1)} d\tau + 2 \int \Psi_i^{(1)} \Psi_i^{(0)} d\tau; \text{ the}$$

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A comment to the variational ...

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normalization of the perturbed function ψ_i results in $\int \psi_i^{(1)} \psi_i^{(0)} d\tau = 0$,
and the orthogonality of the functions ψ_i with respect to ψ_k (describing a state lower in energy than the i -th state) yields

$\int \psi_i^{(1)} \psi_i^{(0)} d\tau = - \int \psi_k^{(1)} \psi_i^{(0)} d\tau = z_{ik} / (E_i^{(0)} - E_k^{(0)})$. The polarizing field is assumed to be along the z -axis. The Euler equation

$(H_0 - E_i^{(0)}) \psi_i^{(1)} = (\lambda_i - z) \psi_i^{(0)} + \sum_k \lambda_k \psi_k^{(0)}$, with $\lambda_i = E_i^{(1)} = z_{ii}$ and

$\lambda_k = 0$ checks with the perturbation theoretical equation for $\psi_i^{(1)}$:

Substituting $\psi_i = [f_i - (f_i)_{ii}] \psi_i^{(0)}$, $(f_i)_{ik} = \int \psi_i^{(0)} f_{ik} \psi_k^{(0)} d\tau$, yields

$\psi_i = [f_i - (f_i)_{ii}] \psi_i^{(0)} + \sum_k \alpha_{ik} \psi_k^{(0)}$, where $\alpha_{ik} = z_{ik} / (E_i^{(0)} - E_k^{(0)}) - (f_i)_{ik}$.

When introduced into the initial equation this gives:

$$E_i^{(2)} \leq J[\psi_i]_{\min} = 2[(z - z_{ii}) + \frac{1}{4} (\text{grad } f_i)^2]_{ii} + 2 \sum_k \alpha_{ik} [(E_k^{(0)} - E_i^{(0)}) f_i +$$

Card 2/4

89218

A comment to the variational ...

8/056/61/040/001/024/037
B102/B212

$+ z]_{ik} + \sum_k \alpha_{ik}^2 (E_k^{(0)} - E_i^{(0)})$. For $f_i = \alpha_z$ one obtains instead of the Kirkwood formula (8): $\alpha_i = 4 [z_{ii}^2 - (z_{oo})^2]^2 / [1 + 2 \sum_k (E_i^{(0)} - E_k^{(0)}) (z_{ik})^2]$, a new variational formula (9): $\alpha_i = 4 [z_{ii}^2 - (z_{ii})^2 - \sum_k (z_{ik})^2]^2 / [1 + 2 \sum_k (E_i^{(0)} - E_k^{(0)}) (z_{ik})^2] - 2 \sum_k (z_{ik})^2 / (E_i^{(0)} - E_k^{(0)})$. Several values of the polarizabilities $\alpha_{n_1 n_2 m}$ of hydrogen states computed by using formulas (8) and (9) (the first two lines) are compared with exact values in Table 1 (last line). Parabolic quantum numbers n_1 and n_2 and the magnetic quantum number m characterize the state; Table 2 shows analogous values for several states of an electron moving in an infinitely deep potential well having a length of $l = 10$ atomic units (α_n is the polarizability of a state characterized by the quantum number n). The new formula, unlike the Kirkwood formula, always gives values that do not exceed the exact ones. The formula can be used to calculate the polarizability of many electron systems. Finally, it is pointed out that taking the orthogonality of the perturbed wave functions into account should also be important in other variational calculations of quantities in second Card 3/4

89218

A comment to the variational...

S/056/61/04C/001/024/037
B102/B212

perturbation-theoretical approximation. There are 2 tables and 5 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: July 14, 1960

Таблица 1

Table 1 and 2

	a_{100}						
По формуле (8)	4	190	144	2910	2016	2450	1296
По формуле (9)	4	148	144	1402	1380	1477	1290
Точное значение	4,5	108	156	1020	1741	1620	1377

Таблица 2

	a_1	a_2	a_3	a_4
По формуле (8)	42,7	199,7	241,5	237,0
По формуле (9)	42,7	-14,0	-0,5	-5,3
Точное значение	43,9	-13,1	-7,8	-4,8

Card 4/4

AMOSOV, N.N.; DUBIN, A.S.; ZUBKOV, V.A.; STARTSEV, V.I.; TOKAREV,
Yu.S.; SHKARATAN, O.I.; KURTYNIN, M.S., red.; ZHEREBKINA,
D.I., red.; LEVONEVSKAYA, L.G., tekhn. red.

[A generation of shock workers; a collection of documents
and materials on socialist competition in Leningrad
industrial plants in 1928-1961] Pokolenia udarnikov;
sbornik dokumentov i materialov o sotsialisticheskem sorev-
novanii na predpriatiiakh Leningrada v 1928-1961 gg. Le-
ningrad, Leninizdat, 1963. 454 p. (MIRA 16:9)

1. Leningrad. (Province) Gosudarstvennyy arkhiv Oktyabr'skoy
revolyutsii i sotsialisticheskogo stroitel'stva.
(Leningrad—Socialist competition)

ZUBKOV, V.A.

Experience in the use of forging-pressing machines. Stan. i instr.
26 no.10:33-34 0'55. (MIRA 9:1)
(Forging machinery)

ADAMOV, M.N.; ZUBKOV, V.A.

Comment on variational calculations of polarizability. Zhur.
eksp. i teor. fiz. 40 no.1:246-248 Ja '61. (MIRA 14:6)

1. Leningradskiy gosudarstvennyy universitet.
(Electrons)

AUTHOR: Yefimov, R. V. (Engineer; Colonel); Zubkov, V. A. (Engineer; Major);
Kugoyev, A. P. (Engineer; Major)

ORG: none

TITLE: Alphanumeric display

SOURCE: Vestnik protivovozdushnoy oborony, no. 10, 1966, 64-68

TOPIC TAGS: digital computer, digital system, antiaircraft defense, military communication, alphanumeric display, AIR DEFENSE SYSTEM

ABSTRACT: An alphanumeric display is used in the air-defense system for the high-speed collection and simulation of important data on military positions, action taken by the air-defense forces, meteorological conditions, and air-defense-force readiness. The alphanumeric display operates on a cold-cathode thyratron, which simplifies the device, decreases its cost, decreases the amount of electricity used, and assures operational reliability; if necessary, the cold cathode thyratron can replace the electron tubes and semiconductor devices which are favored for military use. The system works on the electroluminoflavin principle. Orig. art. has: 7 figures and 1 table.

[WH]

SUB CODE: 09, 15/ SUBM DATE: none

Card 1/1

UDC: none

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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

MAL'TSEV, P.I.; ZUBKOV, V.D.

Disassembling the "Mosbase" shield without removal of supports in
the area. Ugol' 35 no.11:37-40 N '60. (MIRA 13:12)

1. Shakhta No 4 "Begichevskaya" tresta Kalininugol', Tul'skiy
sovarkhoz.

(Mine timbering)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

KATSENBROGEN, Mikhail Solomonovich; ZUBKOV, V.D., retsenzent;
SMIRNOV, b.A., retsenzent; ALEKSANDROVA, A.A., red.

[Characteristics of radar detection] Kharakteristiki ob-
naruzheniya. Moskva, Sovetskoe radio, 1965, 95 p.
(MIRA 18:4)

MOSHKIN, V.N.; ZUBKOV, V.P.; SHIKHANOV, V.V.

Recent data on the age of aragonites from the Dzhungar Range.
Do.1. AN SSSR 137 no.2:391-393 Jr '61. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy eologicheskiy institut i
Dal'nevostochnoye geologicheskoye upravleniye.
(Dzhungar m. --Anorthosite)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520018-2
CIA-RDP86-00513R002065520018-2"

KOPTEV, N.N., Ph.D.; ZUBKOV, V.P., inzh.

*Isogeometric determination of the moments of inertia for bodies
of revolution.* Vest. mashinostr. 45 no.7:40 Jl '65.
(MIRA 16:10)

10(3)

SOV/2o-123-5-9/50

AUTHOR:

Zubkov, V. I.

TITLE: On the Evaporation of Globules of Solid Bodies in a Flow of Gas (Ob isparenii sharikov tverdykh tel v potoke gaza)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 803-805 (USSR)

ABSTRACT: A drop of a liquid preserves its spherical shape independently of the manner of evaporation from the various parts of its surface. But the shape of a globule of a solid volatile substance permits conclusions concerning the distribution of the evaporation rates over the surface of the body flown around. Some previous papers concerning this subject are mentioned. In order to investigate the evaporation rate in various parts of the globule, the author used globules of naphthalene and camphor. The globules flown around were photographed after definite intervals of time and the rates of evaporation in the various parts of the globule were determined. In the same intervals, the total amount of the substance evaporated per time unit was measured by weighing. The velocity of the gas flow varied within the interval 0.5 - 10 m/sec, and the

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SOV/2o-125-5-/50

On the Evaporation of Globules of Solid Bodies in a Flow of Gas

temperature - within the interval between 15 and 100 - 120° (naphthalene, therefore, is evaporated also in the liquid phase). According to these experiments, the kinetics of the evaporation of naphthalene in the liquid and in the solid phases is the same one. The amount of evaporated substance (per time unit) is different, but the evaporation process from the liquid and solid phase has the same qualitative features. A figure shows the successive contours of an evaporating naphthalene globule of 2 mm diameter at a temperature of 45°. A zone of least evaporation subdivides the surface of the globule into a front part and a rear part. The zone of least evaporation lies in the place of the interruption of the flow. This zone includes an angle of 200° with the center of the globule. The front part and the rear part evaporate with different intensities, and in first approximation they preserve their sphericity. Only the radius of the sphere varies. The variations of the surfaces of the front and rear part have a linear time dependence. The front part evaporates faster than the rear part. One can write

$$dS/dt = \text{const.}$$

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On the Evaporation of Globules of Solid Bodies in a Flow of Gas

$$\frac{(ds/dt)_{\text{front}} + (ds/dt)_{\text{rear}}}{2} = \text{const where } S \text{ denotes the surface.}$$

The higher the velocity of the flow, the more intense the evaporation from the front part and from the rear part. ds/dt increases rapidly with increasing temperature. This temperature dependence proves the diffusion character of evaporation. There are 3 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

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MONOSOV, Ya.A.; ZUBKOV, V.I.

Noises of parametric ferrite amplifiers and microwave oscillation converters using frequencies higher than the pumping frequency.
Radiotekh. i elektron. 8 no.3:533-535 Mr '63. (MIRA 16:3)
(Microwaves) (Parametric amplifiers)